INDEX TO VOLUME 63

New names and the final members of new combinations are in **bold face type.**

AARON, ISADOR, A study of blossom bud differentiation in McIntosh variety of apple 259
Abies 323; balsamea 320; grandis 301; lasiocarpa 75, 91, 102
Abnormal method of branching, An 139
Acacia senegal 344
Acanthocereus pentagonus 52
Acer 31, 115, 138; glabrum 78, 81; saccharum 18, 25, 228
Achillea lanulosa 81; millefolium 173
Achlya recurva 47
Achras sapota 344
Aconitum 500, 507; columbianum 507; delphinifolium 507, 514; divaricatum 507; Helleri 507; nasutum 335
Acorus calamus 42
Acroblastum 50
Acrobolus 491
Acrochaetium 237, 240, 245, 247, 249, 254; **Alcyonidiae** 237, 245, 246, 254; Alcyonidiae **cylindricum** 237, 245, 254; attenuatum 244, 254; **compactum** 241, 250; crassipes 240, 241; Dasyae 243; Daviesii 245; emergens 247, 256; endozoicum 245; gracile 246; humile 247; **intermedium** 242, 252; maculum 247; **microfilum** 240, 250; microscopicum 239; moniliforme 241; moniliforme **Mesogloiae** 241, 250; opetigerum 243; parvulum 240; pulchellum 240, 247; **radiatum** 246, 250; reductum 247; Sagraeanum 244; seriatum 244; strictum 246; **subseriatum** 243, 252; trifilum 240; unifilum 239, 250; virgatulum luxurians 244
Acrospermum compressum 418
Actaea 500; spicata 505
Actiniopsis 232
Actinomyces 169; bovis 541
Additions to the genus Amsonia 35
Adenoplea madagascariensis 298
Adiantum 539
Adonis 496, 513; aestivalis 498, 500, 513, 514; vernalis 500, 514
Aegilops 137
Agathibaudia 316
Agathis australis 344; dammara 344
Agave 49, 363; Brandegei 437
Agropyron 490
Agrostis nebulosa 492
Ailanthus 139, 140; altissima 139, 140, 146
Alcyonidium Mytili 237, 245, 246, 254
Aleurites Fordii 230
ALEXANDER, A. E., The optical properties of some natural gums and resins 343
ALEXANDER, EDWARD J., A new Sedum from Texas 201
Alisma 511
Allium 119; Cepa 179, 194
Allomyces arbuscula 107
Alnus 323
Alternanthera 303
Alternaria 493
Alyssum saxatile compactum 368
Amanita 538
Amaryllis 546
American Botanical Literature, Index to 41, 104, 167, 227, 296, 355, 417, 482, 538
American melastomes, Seven 533
Amphicarpaea monoica 37
Amphora ovalis 163; proteus 162
Amsonia 35, 236; arenaria 35; arizonica 35; ciliata 36; filiformis 35; **glaberrima** 36; grandiflora 35; illustris 35; lanata 35; longiflora 35; Palmeri 36; **Peeblesii** 35, 36; pogonosepala 35; Tabernaemontana 35, 36; tomentosa 35
Amsonia, Additions to the genus 35
Anatomy of the spikelets and flowers of Carex, Kobresia and Uncinia 277
Anemone 499, 507, 509; coronaria 498, 500, 504, 507, 509; Davidi 500, 508; demissa 500, 508; japonica 508, 509; minima 493; nemorosa 509; quinquefolia 500, 508, 510; virginiana 500, 508
Anemonella thalictroides 509
Angelica 356
Angelonia 345
Anisophyllum 397, 398, 400, 449, 527, 528; Fendleri 443; genuina 448; genuina flexicaulis 448; genuina imbricata 448; melanadenium 437; serpens 447, 448
Anomoeoneis polygramma 163; sculpta 163; sphaerophora 163
Anona 61; guppyi 54, 60, 61
Antennaria 485; aprica 81; dioica 493

Anthacantha 527, 528
Anthopterus 316; calycinus 307; Pearcei 310
Anthostema 527, 529
Antirrhinum 110
Aphelandra 109
Apium graveolens 178
Aplanobacter Stewarti 490
Aplopappus 104
Apocynum 482; androsaemifolium 81
Apodachlya brachynema 231
Aquilegia 500, 505; canadensis 506; flabellata 506; glandulosa 506; vulgaris 506
Arabis Drummondii 81
Araucaria Bidwillii 427
Arceuthobium 106; campylopodum 229
Arctostaphylos Uva-ursi 78, 81
Argyroxiphium 544
Armoracia 178
Arnica cordifolia 78, 83
Artemisia frigida 81
Arthrocladia villosa 240
Aruncus 421
Ascaris 119; megalocephala 136
Asclepias syriaca 368
Ascoidea rubescens 236
Asparagopsis hamifera 239, 248
Asparagus officinalis 233
Aspergillus flavus 231; niger 235, 427, 486, 492
Asplenium 320, 323
Asterothrix 46
Astragalus 344; flexuosus 81; rubyi 45
Atractobasidium grandinia 424
Atriplex semibaccata 418
Aucuba japonica 427
Avena 1–4, 6, 8, 10–15, 227, 297, 379, 483; sativa 2, 49, 112, 369, 380
Avena coleoptile, phytohormone test object, Polarized growth and cell studies on the 1
AVERY, JR., GEORGE S. and BURKHOLDER, PAUL R. Polarized growth and cell studies on the Avena coleoptile, phytohormone test object 1
Avicennia 53, 65; **miocenica** 54, 59, 65; nitida 65
Axinaea 211, 222, 226, 421; affinis 213, 224–226; costaricensis 212, 222; crassinoda 212, 214; dependens 212, 218; Drakei 213, 218–220; floribunda 223; glandulosa 212, 214, 215, 218; grandifolia 213, 220–223; lanceolata 211–213, 215–218; Lehmannii 213, 220; lepidota 213, 225, 226; macrophylla 213, 222–224, 226; Merianiae 213, 224–226; nitida 213, 220, 221; pauciflora 213, 219, 220; Pennellii 213, 217, 218; purpurea 211; quitensis 226; **robusta** 212, 221; sclerophylla 213, 216; scutigera 213, 217; sessilifolia 212–214; speciosa 213, 219, 220; tetragona 226; tomentosa 212, 215, 216; Weberbaueri 212, 214, 215
Axinaea (Melastomaceae), A revision of the genus 211
Azalea arborescens 227

Bacillus megatherium 50; vulgatus 358
Bacterium angulatum 428; Stewartii 113; tumefaciens 177, 178, 180, 181, 183–185, 187–189, 194, 196, 198, 488, 539
Balanocarpus 344
Bartramia pomiformis 515
Bartramidula 491
Basanacantha echinocarpa 228
Basistemon 345, 346, 348, 489; bogotensis 346, 349; peruvianus 347, 349; **Rusbyi** 348, 349; silvaticus 347–349; **spinosus** 347–349; violaceum 347
Basistemon Turcz., Hassleropsis Chod., and Saccanthus Herzog, Notes on the genera 345
Batrachium 229, 499, 500, 512; confervoides 512
Bazzania 358
Begonia maculata 548; semperflorens 548; semperflorens indianerin 357; socotrana 229, 541
Belonanthus 547
Benzoin aestivale 362
Berberis 43
BERRY, EDWARD W., Miocene plants from Colombia, South America 53
Besleria 48
Betula 320; nigra 52; pendula dalecarlica 421
Biatorella 110
Bidens 51, 234
Billbergia macrocalyx 227; pyramidalis 538
Boletus subalbellus 538
Boltonia latisquama 227
Bomarea 544
Borzicactus 167
Boswellia 344
Botanical districts, An international system of 519
Botanical Literature, Index to American 41, 104, 167, 227, 296, 355, 417, 482, 538
Botrychium dissectum obliquum 427; virginianum 385, 388
Botrytis Rileyi 540
Bouvardia capitata 228; cataphyllaris 228

Bovistella pedictellata 427
Brachythecium cytrophyllum 516; reflexum 114
Brandisia 345
Brassica Napus esculenta 178; oleracea 178, 304; sabauda 178
Brauneria atrorubens 489; paradoxa 489
Bryophyllum 187, 192; calycinum 180; crenatum 368, 380
Bryum bimum 320
Buettneria 54, 59, 62; cinnamomifolia 62
Bulbochaete 299
BURKHOLDER, PAUL R. and AVERY JR., GEORGE S. Polarized growth and cell studies on the Avena coleoptile, phytohormone test object 1
Burretiodendron 301
Buxbaumia aphylla 483
Buxus sempervirens 17

Cakile 426
Calamopitys 235
Caliciopsis pinea 424, 426
Callicarpa 488
Calliergon turgescens 320
Callistemon speciosus 227
Callitris 344
Calochortus albus 227
Caloneis amphisbaena 162; formosa 163; silicula minuta 164
Calophyllum 62; inophyllum 344; tacamahaca 344
Caltha 496, 501, 502; palustris 501, 502, 514; radicans 501
Calvatia craniiformis 51
Calycopeplus 527, 529
CAMP, W. G., A method of cultivating myxomycete plasmodia 205
Campanula rotundifolia 18
Camphoromoea 62
Camptosorus rhizophyllus 494
Camptothecium nitens 320
Campylium stellatum 320
Cananga odorata 344
Canarium luzonicum 344
Capsella 234
Capsicum 228
Cardamine 44
Carex 174, 277, 355, 427; aurea 286, 287; capitata 283, 284; communis 286, 288; concinnoides 291; cristata 286, 287; digitalis 287, 288; eburnea 282, 283; filifolia 282, 283, 285; intumescens 286, 287; laxiflora 288; microglochin 278, 284, 288, 289; paupercula 283, 284; pedunculata 286, 287; platyphylla 286–288; praecox 295; pubescens 290; Schweinitzii 283, 284; Woodii 283
Carex, Kobresia and Uncinia, Anatomy of the spikelets and flowers of 277
Carnegiea gigantea 180, 302
Carya 45, 453, 462, 463; Buckleyi arkansana 452, 465; ovata 482
Castilla elastica 344
Castilleja 298
Catharinea angustata 516
Cavendishia 311; acuminata 314; guascensis 312; **Martii** 313; paniculata 313; strobilifera 313
Ceanothus 105; Fendleri 78, 81
Cell size and organ size in two violet species and their hybrid 17
Cephaelis potaroënsis 234
Cephalosporium 106, 425
Cephalozia lammersiana 303
Cephaloziella 68; byssacea 67
Cerasterias 46
Ceratostema 307, 308, 313; alatum 307; Alberti-Smithii 308; buxifolium 310; calycinum 307; chillacochense 307; coccineum 309; colombianum 312; cordifolium 309; coronarium 311; dichogamum 312; fabulosum 310; Graebnerianum 310; grandiflorum 309; guascense 312; Harmsianum 309; hirsutum 309; lanceolatum 312; Lobbii 309; longepedicellatum 312; longiflorum 309; loranthiflorum 307; Mandoni 311; microphyllum 310; oblongifolium 309; parvifolium 312; Pearcei 310; peruvianum 307, 308; Pilgerianum 311; pubiflorum 312; rigidum 312; Rimbachii 311; sanguineum 311; speciosum 312; spectabile 311; Urbanianum 309
Ceratostomella 357; multiannulata 417; Ulmi 113, 168
Cercis 147; canadensis plena 43
Cereus Beneckei 167; giganteus 302
Cetraria fahlunensis Frostii 104
Chamaenirion 74; angustifolium 78
Chamaesyce 398, 525, 530; acuta 434; albomarginata 446; arenicola 403; aureola 437, 483; bartolomaei 414; Brandegeei 413; carmenensis 410; chaetocalyx 445; cinerascens 439; conjuncta 442; Fendleri 443; Gooddingii 444; incerta 405; intermixta 412; involuta 442; laredana 431; lata 433; melanadenia 437; micromera 432; ocellata

401; Parishii 405; pediculifera 441; petrina 430; polycarpa 406; polycarpa hirtella 409; Pondii 412; portulana 415; pseudoserpyllifolia 432; radicans 448; Rattanii 403; serpens 448; setiloba 429; sulfurea 402; sulphurea 403; tamaulipassana 450; tonsita 409; vallismortae 440; versicolor 415
Chantransia 249; endozoica 248
Chara 467
Chastenaea 211; affinis 224; coriacea 225; floribunda 223; glandulosa 214; grandifolia 222; lanceolata 216; lepidota 225; macrophylla 223; Merianiae 224
Chenopodium polyspermum 358
Chionopappus 104
Chlorella pyrenoidosa 46; vulgaris 360
Chlorociboria 547
Chrysanthemum 368; Leucanthemum 367, 380
Chrysomyxa chiogenis 421; piperiana 421
Chupalon turbinatum 314
Chytridium olla 471
Cicuta 356
Cimicifuga 500, 505, 511; dahurica 505; foetida 505
Circaea pacifica 170
Cistus longifolius 19; populifolius 19
Citrullus 424
Citrus 231, 301, 305, 306, 355, 360, 486; Aurantium 178
Cladophora 241
Cladosporium fulvum 421
Cladoxylon 111
Clarisia 359
Classification of Euphorbia. 1. How important is the cyathium?, On the 525
Claytonia rosea 83
Clematis 500, 510; columbiana 83; montana 510, 514; Pickeringii 510; texensis 548
Cleome 305
Clivia miniata 477
Cobresia 277
Cocconeis placentula 160; scutellum 162
Cochemia setispina 300
Cochlearia 178, 365
Codonorchis 488
Coffea arabica 487
Colaconema 237, 248; **americana** 237, 256; Asparagopsidis 238; Bonnemaisoniae 238; Chylocladiae 238; reticulatum 238
Colletotrichum graminicolum 112
Collinsia parviflora 175
Conchocelis rosea 248
Conifers of the Rocky Moutain Park, A study of the growth, transpiration, and distribution of the 75
Cookeina 302
Copaifera guibourtiana 344
Coprosma 172
Coptis 498–500, 505, 508, 511; trifolia 498, 504, 514
Cordyceps militaris 547
Coreocarpus 51
Coreopsis 234; lanceolata 368, 380
Cornus 51, 233; Drummondii 361
Cornutia 346
Coscinodiscus radiatus 165
Costus malorteanus 538
Coumarouna odorata 344
Couroupita 64; guianensis 65; ovata 65; **santanderensis** 54, 56, 64; surinamensis 65
Coussapoa 54, 59; villosoides 61
Crataegus pruinosa 490
Cremanium 536
Crepis 50, 51, 122, 132; capillaris 50; tectorum 50
Crinum asiaticum 375, 382
CROIZAT, LEON, On the classification of Euphorbia. 1. How important is the cyathium? 525
Cronartium cerebrum 169; ribicola 172, 231
CROSS, G. L. The structure of the growing point and the development of the bud scales of Morbus alba 451
Crotolaria juncea 357
Cruoriopsis 237, 248; Ensisae 247, 256; hyperborea 248
Cryptococcus mollis 42
Cryptosporella 108
Cucumis 115
Cucurbita 115; moschata 541
Cuphea 410; Hintoni 228
Cupressus lusitanica 420
Cycas revoluta 482, 483
Cyclomyces 49
Cyclotella comta 160; Meneghiana 164; operculata 162; striata 157
Cymbella 159; aspera 162; cistula 163, 164; cymbiformis 157
Cynips pezomachoides Erinacei 487
Cyrilla arida 548
Cyrtanthus 384, 388
Cystopteris fragilis 113, 423

Daedalea 49
Daemonorops Draco 344
Danaus plexippus 169

Daphnopsis 541
Darlingtonia californica 363
Dasya pedicellata 243
Dasyscypha 302
Datura 120, 180, 186, 192, 228, 297, 303, 483; discolor 296; stramonium 138, 184, 196
Daucus Carota 178
DAVIES, P. A., An abnormal method of branching 139
Delphinium 327, 329, 332, 336, 337, 340–342, 355, 485, 500, 506, 508; Ajacis 106; amabile 328, 330, 332–334, 336, 341; amabile **apachensis** 334; amabile **pallidum** 334, 337; amabile **typicum** 334, 336; apachensis 334; azureum 328, 335; azureum vimineum 335; Bonatii 507; Bulleyanum 507; caerleum 507; camporum 329; coelestinum 328, 334, 335; **collinum** 330, 338–340; decorum 329; decorum scaposum 331; Hanseni 337; hesperium cuyamacae 337; mohavense 335; nudicaule 329; Parishii 328–330, 333, 335, 340, 341, 342; Parishii pallidum 336, 337; Parryi 337–340; Parryi maritimum 342; Parryi subglobosum 337, 338; recurvatum 336; scaposum 328, 330, 335; subglobosum 330, 337, 338, 340
Dendrocereus nudiflorus 109
Denticula 159; elegans 157, 162; tenuis 158; thermalis 162
Desmosthenesia 308–312; **buxifolia** 310; **fabulosa** 310; **Graebneriana** 310; **Mandoni** 310, 311, 314; **microphylla** 310; **Pearcei** 310; **spectabilis** 311
Diacanthium 528
Diaporthe phaseolorum 175; umbrina 108
Diatoms of Great Salt Lake, Some 157
Dichostema 527, 529
Dichotomophthora Portulacae 47
Dicranum montanum 365; scoparium 515
Dicronella heteromala 515
Didiscus 420
Difflugia 321, 322, 325
Digitalis purpurea gloxinaeflora 487
Dioscorea 54–56, 546
Dioscorites 55
Diospyros 172
Diplacrum 279
Diplocyathium 527, 529, 530
Diplodia 355; Zeae 50, 110, 170
Diploneis 157; elliptica 157, 158; oculata 157, 163; ovalis 163; puella 157
Diplophlyctis 470, 548; intestina 467, 468, 470, 471
Diplophlyctis intestina, Germination of the resting spores of 467
Ditrichum flexicaule 320
Dothiorella 299
Dowingia mirabilis 422
Draba 357
Dracaena cinnabari 344; Draco 344
Drepanocladus revolvens intermedius 320
Drymocallis fissa 83

Echeveria 113, 173, 490
Echinocereus angusticeps 484
Echinus microtuberculatus 136
Elaeophorbia 527
Elaphrium elemiferum 344; tomentosum 344
Eleocharis caribaea dispar 46, 51
Elodea 234
Elsinoe 231; ampelina 359; Fawcetti 418
Elymus ambiguus 171
Elyna 277
Encelia farinosa 339
Endogone 299
Endothia parasitica 418
Englerodoxa 307, 308, 313; alata 307; Alberti-Smithii 308; calycina 307; loranthiflora 307
Ensis directus 248
Entodon seductrix 516
Entophlyctis Vaucheriae 471
Ephedra 351; **Coryi** 351, 353, 490
Epidendrum 296; conopseum 540
Epilobium 72, 74; angustifolium 72, 368, 425
Epithemia argus 164; argus alpestris 158, 164; intermedia 157; musculus 160, 162; musculus constricta 160; sorex 160, 162; sorex gracilis 162; turgida 162; turgida granulata 163; zebra 157, 160, 163, 164; zebra saxonica 162
Epurga 530
Equisetum arvense 351
Eranthis 498, 500; hyemalis 503; longistipitata 503
Erigeron compositus 81; flagellaris 81; glandulosus 81
Eriogonum intrafractum 540; umbellatum 81
Erwinia amylovora 417, 542
Erysimum asperum 81
Erysiphe 546; graminis 42, 425; Polygoni 494
Erythropeltis 237; discigera Flustrae 237, 256
Escherichia Coli 299, 486
Eschscholtzia californica 368
Eucalyptus 43
Euchlaena mexicana 227

Eugenia 64; comparabilis 54, 64; Hookeri 422
Eunotia gracilis 160
Euphorbia 342, 398, 426, 437, 449, 525–531; abyssinica 528; acuta 401, 434; acuta stenophylla 434, 435; akenicarpa 528; albomarginata 401, 440, 446; angusta 398; antiquorum 527, 528; Antso 528; **apicata** 401, 436, 437; arenicola 403; arizonica 400, 415, 417; Aucheri 530; bartolomaei 401, 414; biglandulosa 528; bilocularis 528; bounophila 530; Brandegei 401, 413, 414; Broteri 530; capitellata 175, 450; capitulata 529, 530; Caput-Medusae 528; carmenensis 410; caudiculosa 530; chamaebuxus 530; Chamaesyce 528; cinerascens 401, 439, 440, 528; cinerascens appendiculata 437; clavidigitata 528; collina 415, 417; conjuncta 442, 443; Cooperi 527; corollata 528; cuspidata 403; cybirensis 528; cyparissias 425; dalmatica 530; dilata 433; dracuncoloides 530; Engelmanni radicans 448; epithymioides 530; eremica 400, 404; Fendleri 401, 443; Fendleri chaetocalyx 444, 445; Fendleri dissimilis 444; Fendleri **triligulata** 444, 445; Fendleri **typica** 444, 445; filicina 530; flagelliformis 397; flexicaulis 448; floccosiuscula 429; florida 397; fragifera 530; fulgens 528; Geyeri 397; glebulosa 530; gracillima 398; guadalupensis 412, 413; herniariaefolia 530; herniaroides 448; incerta 400, 405; intermixta 412; Intisy 528; involuta 442, 443; Jacquinii 530; Kanaorica 530; lactea 540; laredana 400, 431; lata 401, 433, 434; Lathyris 528; leucodendron 528; lignosa 527; melanadenia 401, 410, 437, 438; melanadenia subinappendiculata 439, 440; micromera 400, 432, 433; monocyathium 530; nicaeensis 530; noxia 528; ocellata 400, 401; ocellata arenicola 402, 403; ocellata Rattanii 400, 402, 403; ocellata **typica** 402, 403; pachysantha 528; palustris 530; Parishii 400, 405; patellifera 405; pauciflora 528, 530; pauciflora pectinata 528; pectinata 530; pediculifera 401, 414, 441; pediculifera inornata 442, 443; pediculifera involuta 442; pediculifera linearifolia 442, 443; pediculifera minor 413, 414; pediculifera **typica** 434, 442; pedilanthoides 528, 530; peninsularis 401, 435, 437; Peplis 528; petaloidea 397; petrina 400, 430; podagrica 432; polycarpa 401, 406, 415, 437; polycarpa appendiculata 437; polycarpa **carmenensis** 407, 410; polycarpa **genuflexa** 407, 409, 411, 412; polycarpa hirtella 407–410; polycarpa **intermixta** 407, 412; polycarpa **Johnstonii** 407, 409–411; polycarpa **Mejamia** 407, 409–412; polycarpa petrina 430; polycarpa **typica** 407–413; polyclada 397; polygona 527; polygonifolia 397; Pondii 401, 412; portulana 415, 417; pseudoserpyllifolia 432, 433; pseudoserpyllifolia typica 432; pseudoserpyllifolia villosa 432, 433; purisimana 415, 417; radicans 448; Rattanii 403; rhipsaloides 343; rinconis 433, 434; rupicola 443, 444; Sapini 484; sareptana 530; Schottiana 530; sclerocyathium 528, 530; serpens 401, 447, 448, 450; serpens imbricata 448, 450; serpens radicans 448; setiloba 401, 415, 429; splendens 528; stipulacea 446; sudanica 229; taurinensis 530; tetraptera 528; tinctoria 530; Tommasiniana 530; trapaefolia 229; triaculeata 527; triflora 530; Valliniana 530; vallis-mortae 401, 440; veneta 530; ventosica 530; vermiformis 442; versicolor 415, 417; virgata 528; Wrightii 397; zygophylloides 398
Euphorbia 1. How important is the cyathium? On the classification of 525
Euphorbia polycarpa group of the Southwestern United States and adjacent Mexico; a preliminary treatment, Revision of the 397, 429
Eves, Donald S., A revision of the genus Axinaea (Melastomaceae) 211
Ewan, Joseph, The genus Delphinium in North America: series Pelligerae of subsection Subscaposa 327
Exochogyne amazonica 43; decandra 52; megalorrhyncha 52

Fagonia 339
Fagopyrum esculentum 424
Falcata comosa 37, 38, 40
Favolus 49
Ficus 56, 62, 63; australis 477; betijoquensis 54, 59, 60; elastica 344; macrocarpa 17; mississippiensis 62; rubiginosa 477; talamancana 54, 56
Ficus australis, Wound responses of 477
Five-leaflet poison oak 473
Fomes 49; geotropus 422; Pini 489

Fossil studies of the Two Creek Forest Bed, Manitowoc County, Wisconsin, Further 317
Fouquieria 339, 422
Fragaria 304; ovalis glauca 81, 83
Fragilaria 159, 165; brevistriata 158; Harrisonii 160; mutabilis 157, 158, 160, 162, 164
Franseria 342
Frasera speciosa 78
Fritillaria 388; imperialis 383, 388; messanensis 384
Fuchsia 361
Fucus furcatus 364
Fuligo varians 210
Funaria 73
Fundulus 119, 138; heterochitus 137
Funifera 541
Further fossil studies of the Two Creek Forest Bed, Manitowoc County, Wisconsin 317
Fusarium 44, 49, 175, 236; culmorum 107

Gaillardia aristata 81
Galium boreale 81, 83
Ganoderma lucidum 363
Garcinia morella 344
Gasterella 176
Gasteria 388
Gentiana salpinx 228
Genus Delphinium in North America: Series Pelligerae of subsection Subscaposa, The 327
Geranium Fremontii 81
Germination of the resting spores of Diplophlyctis intestina 467
Gibberella Saubinetii 229
Gilia congesta 540
Gilmania 484
Gladiolus 44, 304, 355
Glaucidium 500, 501; palmatum 501
GLEASON, H. A. Seven American melastomes 533
Glossocentrum 536
Gnaphalium calviceps 229; obtusifolium 485
Gomphonema longiceps subclavata 163
Goniostema 527, 528
Gossypium 304, 363; Davidsonii 234; Sturtii 234
GRAFF, PAUL W., Invasion by Marchantia polymorpha following forest fires 67
Graffenrieda 533; laurina 534; **trichanthera** 533
GRASSL, CARL O. An international system of botanical districts 519
Grimmia Hartmani anomala 108; montana 171
Grisebachiella 114
Growth of plant embryos in culture, The 365
Guaiacum officinale 344; sanctum 344
Gurania malacophylla 174
Gymnosporangium 109, 297; clavipes 106; globosum 300; Juniperivirginianae 233

Halerpestes Cymbalaria 511
Halicystis ovalis 170, 303
Hantzschia amphioxys 162; elongata 164
Haplostachys 112
Hasseanthus 491
Hassleropsis 345–347, 489; spinosa 345, 347
Hassleropsis Chod., and Saccanthus Herzog, Notes on the genus Basistemon Turcz. 345
Haynaldia villosa 302
Helianthus 168; annuus 15, 47, 172, 184; tomentosus 538
Helicogloea 417
Helleborus 497, 500, 501, 503; foetidus 503; viridis 503
Helminthosporium 44, 175; sativum 107; sigmoideum irregulare 106
Helvella palustris 297
Hemicarex 277
Hepatica 498, 500; triloba 510
Hernandia 62, 63; guianensis 63; **Tongi** 54, 60, 62
Herpobasidium filicinum 170
Hesperethusa crenulata 231
Hesperothamnus 231
Heuchera bracteata 83
Hevea 541
Hintonia latiflora leiantha 228
Holcus sorghum sudanensis 49
Homamallium adnatum 50
Hopea 344
Hordeum 365, 423; deficiens 490; vulgare 490
Hormodendron compactum 539, 541; pedrosoi 541
Hosta caerulea 386, 388
Houstonia 33, 232; minima 33; minor 33; parviflora 33; pusilla 33; **pygmaea** 33
Houstonia in southcentral Texas, A new 33
Hydrastis 497, 500, 501; canadensis 501
Hymenachne amplexicaulis 46
Hymenaea 298, 344; courbaril 344
Hypericum uralum 465
Hypnum patientiae 515–517
Hypomyces Ipomoeae 43
Hysteroneura setariae 543

Icicia heptaphyllum 344
Impatiens balsamea 41

Index to American Botanical Literature 41, 104, 167, 227, 296, 355, 417, 482, 538
International system of botanical districts, An 519
Invasion by Marchantia polymorpha following forest fires 67
Ipomoea 107
Iridaea laminarioides 542
Iris 279, 485; versicolor 229
Isopyrum 500, 504; fumarioides 504; Henryi 504

Jambosa 65
Jamesia americana 78, 81, 82
JAO, CHIN-CHIH, New Rhodophyceae from Woods Hole 237
Juglans cinera 482; nigra 482; regia 48
JUMP, JOHN AUSTIN, Wound responses of Ficus australis 477
Juniperus 338; communis 78

KARLING, J. S. Germination of the resting spores of Diplophlyctis intestina 467; Overwintering of Synchytrium decipiens in New York 37
Keithia 49
KIRCH, SISTER M. HYACINTH, Some abnormalities in the development of the embryo sac of Lilium longiflorum 383
Kobresia 277, 278, 280–282, 285, 293, 294, 427; caricina 283
Kobresia and Uncinia, Anatomy of the spikelets and flowers of Carex 277
Krameria canescens 339
Kyllingia 355

LA RUE, CARL D. The growth of plant embryos in culture 365
Lacmellea 176
Lactaria 419
Lactuca 367; canadensis 367, 380
Landolphia florida 344
Larix 323, 324
Larrea 342
Lathyrus latifolius 368
Lecidea 360
Ledum 360
Lejeunea ovata 104
Lenzites 49; betulina 418
Lepidostrobus 484
Lepiota Morgani 302
Leptosphaeria bondari 42; Salvinii 106
LEVINE, MICHAEL, The response of plants to localized applications of various chemical agents 177
Lilium 384, 546; candidum 384, 387; elegans 418; Henryi 229, 384, 388; longiflorum 45, 383, 384, 387, 388; Martagon 383, 388; philadelphicum 383
Lilium longiflorum, Some abnormalities in the development of the embryo sac of 383
Linospora 424
Linum grandiflorum 487; perenne 368; usitatissimum 298
LIPMAN, CHARLES B., The tolerance of liquid air temperatures by dry moss protonema 515
Liriodendron tulipifera 481
Listera cordata 418
Literature, Index to American Botanical 41, 104, 167, 227, 296, 355, 417, 482, 538
Lithospermum angustifolium 81
Lobelia 173, 488, 489; inflata 489
Lonchocarpus 48
Lonicera 172; canadensis 107
Lophodermium 52
Lophozia 298; bicrenata 67
Lupinus albus 179, 545; nanus 538
Lycium 236
Lycogala epidendron 210
Lycoperdon acuminatum 427; pedicellatum 427
Lycopersicon 119; esculentum 368, 380, 493, 548
Lycopodium 41, 301
Lygodium japonicum 540

Majanthemophyllum 55
Malus hupehensis 420
Malva moschata 368
Manihot glaziovii 344
Marchantia 68–74; polymorpha 68, 70–72, 74, 298
Marchantia polymorpha following forest fires, Invasion by 67
Marijsa paniculata 362
MARVIN, J. W., Cell size and organ size in two violet species and their hybrid 17
Mastogloia Dansei 163
Mauritia 539
Mauritiella 539
McIntosh variety of apple, A study of blossom bud differentiation in 259
MCNAIR, JAMES B., Five-leaflet poison oak 473
Medicago 229

Melampsora Lini 298
Melanium 137, 168
Melastomes, Seven American 533
Melilotus 112; alba 368; medicago 112
Melocactus 301
Melosira 165; arenaria 164; crenulata 164; distans 157, 160; granulata 157, 158, 160; italica 160
Mendia notula 137
Meriania 211, 226; dependens 218; purpurea 211; radula 226; **Simsiana** 533
Mertensia 546
Mesogloia divaricata 242
Mespilodaphne 63, 64; **colombiana** 54, 60, 63
Method of cultivating myxomycete plasmodia, A 205
Metrosideros 173
Mexico, a preliminary treatment, Revision of Euphorbia polycarpa group of the Southwestern United States and adjacent 397, 429
Miconia acuminifera 535; caudata 534; **expansa** 536; **flaviflora** 534, 535; floribunda 536, 537; grandifolia 536, 537; Klugii 536; **leucantha** 534; **longisepala** 536; macrantha 536; majalis 536; Pilgeriana 536; **semisterilis** 535; stellipilis 536
Microdictyon 362
Mikania scandens 538
Milesia Kriegeriana 299; Polypodii 299; Scolopendrii 299; vogesiaca 299
Mimosa 42, 419; pudica 419, 483
Mimulus 298, 357
Mimusops balata 344
Miocene plants from Colombia, South America 53
Mitochytridium ramosum 229
Mnium punctatum 485
MOLDENKE, HAROLD N., Notes on the genera Basistemon Turcz., Hassleropsis Chod., and Saccanthus Herzog 345
Mollugo verticillata 172
Monadenium 527
Monilia inexorabilis 420
Monilinia 422
Monochaetia ulmi 173
Monosporium apiospermum 44, 50
Morus 452, 453, 457, 462, 463; alba 452, 464
Morus alba, The structure of the growing point and the development of the bud scales of 451
Moss protonema, The tolerance of liquid air temperature by dry 515
Mouroucoa violacea 107, 362
MUELLER, C. H., New and noteworthy trees in Texas and Mexico 147
MUELLER, C. H. and MUELLER, MARY T., A new Houstonia in southcentral Texas 33
Muhlenbergia gracilis 171
Musa 105, 231
Mycena 174
Mycosporella rubi 106
Myosurus 500; minimus 511
Myxomycete plasmodia, A method of cultivating 205

Najas gracillima 113
Naravelia 498, 500, 504, 512; zeylanica 510
Navicula bacillum 158; bacillum lepida 158; cincta 158, 160, 162, 163; cryptocephala 158; cryptocephala pumila 160, 163; gracilis 164; oblonga 163; peregrina 158, 163; pupula 163; pygmaea 160; radiosa tenella 158, 162; rhynchocephala amphiceros 158; salinarum 163; viridula avenacea 162
Necrostethus grossus 120
Nectandra 63
Nectria 175, 302
Nectriella versoniana 298
Nelumbo pentapetala 485
Nemesia 234
Nemophila 543
Neomammillaria dawsonii 170
Nephrodium hirtipes 385, 388
Neurospora 109, 306, 544; crassa 488, 544; tetrasperma 45
New and noteworthy trees in Texas and Mexico 147
New Houstonia in southcentral Texas, A 33
New Rhodophyceae from Woods Hole 237
New Sedum from Texas, A 201
Nicotiana 1, 15, 175, 304; glutinosa 180; tabacum 180, 184, 187, 190, 368, 380, 546
Nigella 497, 500; integrifolia 504
Nitella 170, 231, 233, 361, 467; flexilis 467
Nitzschia 160, 162; amphibia 158, 160; apiculata 158, 163; Closterium 364; epithemoides 158; granulata 162; hungarica 158, 162; parvula 162; punctata 162, 163; punctata elongata 163; sigmoidea 163; socialis 160; subtilis paleacea 158
Nodosaria 321
Notes on the genera Basistemon Turcz., Hassleropsis Chod., and Saccanthus Herzog 345
Nuphar luteum 477
Nyctalis asterophora 427; parasitica 427

Oak, Five-leaflet poison 473
Ocotea 64
Oedogonium 299, 363
Oenothera 168, 484; grandiflora 168; Greggii 440; Lamarkiana 168, 169, 485; pratincola 485
On the classification of Euphorbia. 1. How important is the cyathium? 525
Opephora 158, 160
Operculina tuberosa 107
Ophioglossum vulgatum 385, 388
Optical properties of some natural gums and resins, The 343
Opuntia 194, 301; clavarioides 236; keyensis 180, 190; marenae 301
Oreobroma 300
Oreochrysum Parryi 78, 83
Oreodaphne 64
Ornithogalum pyrenaicum 383
Orobanche uniflora 105
Osmunda regalis 423
Ostreobium Quecketii 248
Overwintering of Synchytrium decipiens in New York 37
Oxygraphis 500; Cymbalaria 511
Oxytropis bilocularis 81

Paeonia 497, 500, 501; albiflora 499 514
Palaquim gutta 344
Palmophyllum 54, 55
Panicum 173; palmifolium 376, 381
Paradaniella Oliveri 343
Paradrypetes ilcifolia 232
Parkinsonia aculeata 234
Paspalum stoloniferum 120, 136
PATRICK, RUTH, Some diatoms of Great Salt Lake 157
Paulownia tomentosa 545
Pavetta 360
Pedilanthus 527
Pelexia maculata 174
Pellegrinia 308, 309, 312, 313; buxifolia 310; coccinea 309; coronaria 311; dichogama 312; fabulosa 310; Graebneriana 310; grandiflora 309; guascensis 312; Harmsiana 309; hirsuta 309, 314; lanceolata 312; Lobbii 309; longepedicellata 312; Mandoni 311; microphylla 310; parvifolia 312; Pearcei 310; pubiflora 312; rigida 312; Rimbachii 311; speciosa 312; spectabilis 311
Pelligerae of subsection Subscaposa, The genus Delphinium in North America: Series 327
Penicillium expansum 538; glaucum 486; javanicum 47; oxalicum 231
Pentstemon 231; humilis 81, 83
Peplis 525
Periclesia 313; flexuosa 313; **lanceolata** 312
Peridermium 46
Pernettya 548
Peronospora 105, 111
Persea 63; coriacea 54, 56, 63; gratissima 63; rigida 63
Petroselinum 178
Phacelia ciliata opaca 422
Phaseolus multiflorus 547; vulgaris 179
Phialophora 541
Phillipsia 302
Philodendron rigidifolium 306
Phlyctaena linicola 358
Phlyctidium 471
Plyctochytrium 471
Phomopsis Stewartii 46
Phrynotettex 135; magnus 119, 138
Phycastrum 46
Phyllites 54 59, 66
Phyllogonum 484
Phyllostachys nigra 233
Phyllostegia 112
Phymatotrichum 306, 492; omnivorum 427
Physalis subglabrata 428
Physarum polycephalum 205, 210
Phytomonas Pruni 113; rhizogenes 52; Stewarti 108; Syringae 50; tumefaciens 52; vascularum 108
Phytophthora 232, 427; cactorum 47, 488
Picea, 320, 323, 324; canadensis 378, 381; Engelmannii 75, 102; glauca 319; mariana 319
PIERCE, W. P., The relation between cell, nuclear and chromosome dimensions in a sterile violet species—hybrid 115
Pilea 300
Pinites succinifer 344
Pinnularia 159, 165; borealis 158; Brebissoni 158, 162, 164; viridis 160, 162, 163
Pinus 323, 324, 357, 485; Banksiana 320; contorta 72, 75, 102, 103; flexilis 77; Jeffreyi 229; ponderosa 75, 102; resinosa 378, 381; sylvestris 46; taeda 492
Piperites cordatus 55
Pisolithus tinctorius 47
Pistacia lentiscus 344
Pisum sativum 169, 178, 179, 425
Pityopus 43
Planaria 228

Plant embryos in culture, The growth of 365
Plantago lanceolata 18, 368; major 18, 368
Plasmodia, A method of cultivating myxomycete 205
Platanus orientalis 170
Pleuradena 527
Pleurage anserina 420
Pleurosigma delicatulum 163
Plutarchia 309, 311–313; **coronaria** 311; **guascensis** 312; **pubiflora** 312; **rigida** 311, 312, 314; **Rimbachii** 311; **speciosa** 312
Podostemon ceratophyllum 486
Poinsettia 527
Poison oak, Five-leaflet 473
Polarized growth and cell studies on the Avena coleoptile, phytohormone test object 1
Pollen grains in the identification and classification of plants. VII. The Ranunculaceae 495
Polyclita 314, 316; **turbinata** 314
Polygonum cuspidatum 18, 25, 28
Polyphagus Euglenae 470, 471
Polyplethia 50
Polypodium polypodioides 236
Polysiphonia fibrillosa 240, 245, 247
Polystictus versicolor 547
Polytrichum 73
Populus grandidentata 485; tremuloides 485
Portulaca 49; oleracea 48, 365
Posoqueria 65; columbiana 54, 56, 65; latifolia 66
Potentilla Newberryi 297; rubricaulis 81; tridentata 301
Primula 137
Protium icicariba 344
Prunus laurocerasus 477; melanocarpa 83
Pseudocymopterus montanus 81
Pseudodiscosia 427
Pseudomonas tumefaciens 113
Pseudopeziza ribis 356
Pseudotsuga 300; taxifolia 75, 102, 378, 381
Psilotum 489
Pteris longifolia 422
Puccinia Antirrhini 301; coronata Avenae 111; glumarum 361, 425; graminis Tritici 169; Helianthi 167; malvacearum 296; Tritici 425; triticina 423, 539
Pulsatilla 500, 509; alpina 500, 509; Hackelii 509; hirsutissima 81, 509; ludoviciana 509
Purshia tridentata 81
Pyrola 360, minor 78
Pyrus malus 43, 272
Pythium arrhenomanes 541; graminicolum 541; ultimum 108

Quercus 323, 487; alba 487; aurantiaca 152; baldoquinae 151; Canbyi 149; Canbyi adscendens 149, 152; Canbyi **concolor** 152; **clivicola** 149, 150; clivicola **consanguinea** 150; clivicola **crenifolia** 150; clivicola **dentata** 150; consanguinea 150; **cupreata** 152, 153; cupreata **serrata** 153; fusiformis 149; glaucoides 150, 151; glaucophylla **macropetiolata** 151; Grahami 153; marylandica 33, 155; **microlepis** 150, 151; **monterreyensis** 151, 152; Muehlenbergii 149; Muehlenbergii Alexanderi 149; polymorpha 149; robusta 154, 155; **runcinatifolia** 153; runcinatifolia **lata** 153; rysophylla 149; Standleyi 149, 152; stellata 33; **tardifolia** 154; texana 154; texana chisosensis 154

Ranunculaceae, Pollen grains in the identification and classification of plants. VII., The 495
Ranunculus 229, 421, 495, 497, 500, 511, 512; abortivus 512, 514; acris 499, 512; aquatilis 512; Cymbalaria 511; Purshii 512
Raphanus 365; sativus 178
Rathbunia alamosensis 236
Razoumowskya 229
Rebutia oculata 236
Recordia 48
REED, E. L., Ephedra Coryi 351
Rehdera 300
Relation between cell, nuclear and chromosome dimensions in a sterile violet species—hybrid, A 115
Response of plants to localized applications of various chemical agents, The 177
Reticularia lycoperdon 210
Revision of Euphorbia polycarpa group of the Southwestern United States and adjacent Mexico; a preliminary treatment 397, 429
Revision of the genus Axinaea (Melastomaceae), A 211
Rhaphithamnus 345
Rheedia 61; miocenica 54, 61
Rheum officinale 18, 25, 28
Rhizidium mycophilum 471
Rhizobium 363
Rhizoctonia 306; Solani 110
Rhizophidium 471; graminis 423; ovatum 471
Rhodochorton 249

Rhododiscus 248
Rhodophyceae from Woods Hole, New 237
Rhopalodia gibba 162, 163; gibberula 160
Rhus 474; diversiloba 473; diversiloba **quinquifolia** 473, 474; vernicifera 474, 476; verniciflua 474; Vernix 474
Ribes 79, 80, 82, 168; cereum 78, 81; roezli 546; saxosum 78, 81
Ricinus 177, 180, 181, 185–187, 192; communis 50, 184, 196
Robinia ambigua 235; pseudoacacia 361
Rollandia 173
Rosa Sayi 78, 81
Rubus 172, 304
Rumex 487
Ruppia maritima 42, 47, 545
Rusbya Pearcei 310
Russelia peruviana 347
Russula 419

Sabalites 55
Sabina californica 338
Saccanthus 345, 346, 489; silvaticus 345, 347; violaceus 345, 347
Saccanthus Herzog, Notes on the genera Basistemon Turcz., Hassleropsis Chod., and 345
Salix 229, 360; fragilis 180
Salvia 44, 356
Sambucus microbotrys 78; niger 17
Sanicula 173
Saprolegnia 539
Sapromyces Reinschii 231
Sarcogyne 110
Sarcopygme 174
Sassafras 421
Saxifraga austromontana 83
Scapania 357
Scenedesmus acutus 301
Scheelea Lundellii 41
Schiedea 539
Schizoparme straminea 298
Schizostachyum 171
Schoenoxiphium 277, 278, 281, 285, 293, 294
Sciadopitys 233
Scirpus 288, 293, 355
Scleranthus annus 299
Scleria 419
Sclerophoma 175
Sclerospora graminicola 493
Sclerotinia 105, 364; fructicola 486
Sclerotium Delphinii 489; Rolfsii 109
Scoliopleura peisonis 158, 160, 162, 163
Scorpidium Scorpioides 320
Scorzonera hispanica 178
Sebacina 52, 547
Secale 301, 365
Securinega 171
Sedella 426
Sedum 201, 356, 358, 417, 494; **Robertsianum** 201, 202; stenopetalum 81; ternatum 482
Sedum from Texas, A new 201
Semiramisia fragilis 312
Sempervivum 357
Septobasidium 43
Setcreasia brevifolia 233
Seven American melastomes 533
Shepherdia canadensis 78
Shorea, 344
Silene virginica 227
Siphonandra 307–309
Smilax 544
SMITH, ALBERT C., Studies of South American plants—V. Additional notes on Thibaudieae 307
SNELL, ROBERT S., Anatomy of the spikelets and flowers of Carex, Kobresia and Uncinia 277
Sobralia Powellii 227
Solanum 119
Solidago 485; decumbens 78; missouriensis 78; rigida 428, 486
Solmsiella Kurzii 302
Some abnormalities in the development of the embryo sac of Lilium longiflorum 383
Some diatoms of Great Salt Lake 157
Sorbus aria 19; aucuparia 19
Sorocea 51
Spacelotheca Sorghi 359
SPERRY, OMER E., A study of the growth, transpiration, and distribution of the conifers of the Rocky Mountain National Park 75
Sphaceloma 231; Fawcettii Scabiosa 359
Sphaeria Zeae 50
Sphaerocarpus 122; cristatus 482; Donnellii 137; texanus 113
Sphenolobus 298
Sphinctosiphon 36
Spiranthes odorata 235
Spirogyra 228
Splachnobryum Kieneri 428
Stamnaria 547
Stelis 41
Stellaria humifusa 299
Stenadenium 527, 529

Stenogyne 112
Stephanodiscus astrea 160
Sterculia 174; urens 344
Stereochlamys 232
Strongylocentrotus lividus 136
Structure of the growing point and the development of the bud scales of Morus alba, The 451
Studies of South American plants—V. Additional notes on Thibaudieae 307
Study of blossom bud differentiation in McIntosh variety of apple, A 259
Study of the growth, transpiration, and distribution of the conifers of the Rocky Mountain National Park, A 75
Stuebelia nemorosa 44
Stylopage 420
Subscaposa, The genus Delphinium in North America: series Pelligerae of subsection 327
Suretenia Krukovii 421
Surirella angusta 158; ovata 163; ovata utahensis 163; striatula 158, 162, 163, 164
Symphonia globulifera 358
Symphoricarpos racemosus 78
Synadenium 527–529
Synchytrium decipiens 37–40, 231
Synchytrium decipiens in New York, Overwintering of 37
Syndesmon 498–500, 504, 511; thalictroides – 509, 514
Synedra 165; acus 163; affinis acuminata 158; affinis lancettula 158; ulna 158
Synthyris stellata 426
Syringospora inexorabilis 420

Taphrina 299
Tapirira 61; guianensis 61; lanceolata 54, 60, 61
Taraxacum officinale 178, 367, 380
Tectona 48
Terminalia 421, 541
Tetracladium marchalianum 46
Thalictrum 498–500, 504, 511, 512; clavatum 513; dioicum 499, 513, 514; dipterocarpum 513; polygamum 513
Thelia asprella 516
Themistoclesia 548; buxifolia 310; coronilla 311
Thermopsis divaricarpa 78, 81
Thibaudia 308–311, 316; acuminata 314; apophysata 316; coronaria 311; hirsuta 309; involucrata 316; Martii 313; microphylla 310; parvifolia 312; strobilifera 314; turbinata 314, 316
Thibaudieae, Studies of South American plants—V. Additional notes on 307
Thielaviopsis basicola 108
Thuja occidentalis 378, 381
Tiarella macrophylla 487
Tilia 147, 323
Tilletia levis 417, 548; Tritici 170, 296, 417, 539, 548
Timotocia 489
Tithymalus 525–530; robustus 81
Tolerance of liquid air temperatures by dry moss protonema, The 515
Tolmiea Menziesii 428
Toumeya papyracantha 358
Townsendia 298
Trachylobium verrucosum 344
Tradescantia 227, 417; gigantea 547; reflexa 301, 489; Wrightii 176
Tragopogon porrifolius 230
Trametes 49
Trautvettaria 500; grandis 511
Trichocaulon piliferum 486
Trichoderma lignorum 492
Trichosterigma 527
Trichothelium 232
Trigonella 112
Triticum 3, 6, 9, 11, 15, 137, 301, 365, 483, 490; vulgare 2, 465
Trollius 497, 500, 502; albiflorus 502, 503; europaeus 502; Ledebourii 502
Tsuga 485; canadensis 378, 381
Tuberculina maxima 169

Ulmus 323; alata 147; americana 147; crassifolia 147; **divaricata** 147; floridana 147; fulva 147
Uncinia 277–279, 281–283, 294, 427
Uncinia, Anatomy of the spikelets and flowers of Carex, Kobresia and 277
Underwoodia 425
United States and adjacent Mexico; a preliminary treatment, Revision of Euphorbia polycarpa group of the Southwestern 397, 429
Ustilago avenae 46; levis 46; Zeae 428
Utricularia 300; capensis 544
Uvularia grandiflora 383

Vaccinium 548; corymbosum 484
Vallota 376; purpurea 376, 381
Valonia 355, 356, 484; macrophysa 304; ventricosa 303
Variola 355
Vateria 344; indica 344

Velthemia 384
Verbena 540; prostrata 490
Viburnum pauciflorum 83; Rafinesquianum 46
Vicia Faba 178
Viola 115, 116, 137; arenaria 19; conspersa 19–30, 32, 116, 123–126, 128–133, 135; mirabilis 19; papilionacea 19, 21–30, 32, 116, 123–126, 128, 130–133, 135; riviniana 19; rotundifolia 175; sylvatica 19
Vitellaria mammosa 344
Vriesia duvaliana 538

Washingtonia 484; obtusa 83
WHEELER, LOUIS C., Revision of the Euphorbia polycarpa group of the Southwestern United States and adjacent Mexico; a preliminary treatment 397, 429
WILSON, L. R., Further fossil studies of the Two Creeks Forest Bed, Manitowoc County, Wisconsin 317
WODEHOUSE, R. P., Pollen grains in the identification and classification of plants. VII. The Ranunculaceae 495
WOODSON, JR., ROBERT E., Additions to the genus Amsonia 35
Wound responses of Ficus australis 477

Xanthorrhea 343; hastilis 344
Xanthorrhiza 498–500, 504, 505; apiifolia 498, 505; simplicissima 505
Xylomites Cycadeoideae 419

Yucca 493

Zea 1, 13, 119, 371; mays 15, 31, 137, 138, 170, 173, 179, 227, 297, 370, 371, 374, 377, 380, 539
Zebrina pendula 285, 288, 293
Zephyranthes 46, 358
Zinnia 543
Zostera 244; marina 361
Zschokkea 176
Zygastates octavioreisii 542
Zygorhizidium Willei 471